|  | Application No.   | Applicant(s)     |
|--|---|------------------|
| Notice of Allowability   | 10/522,976  | POPOVIC ET AL.   |
|  | Examiner  | Art Unit         |
|  | Kenneth J. Whittington  | 2862             |
| The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. |   |                  |
| 1. This communication is responsive to the Amendment filed May 16, 2007 and the telephone calls on June 12-13, 2007.   |   |                  |
| 2. The allowed claim(s) is/are <u>12-15 and 18-33</u> .  |   |                  |
| 3.   |   |                  |
| Attachment(s)  1. Notice of References Cited (PTO-892)  2. Notice of Draftperson's Patent Drawing Review (PTO-948)  3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date  4. Examiner's Comment Regarding Requirement for Deposit of Biological Material  | 5. ☐ Notice of Informal P 6. ☐ Interview Summary Paper No./Mail Dat 7. ☑ Examiner's Amenda 8. ☑ Examiner's Stateme 9. ☐ Other | (PTO-413),<br>te |
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## EXAMINER'S AMENDMENT

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An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interviews with Daniel Mackas (Reg. 38541) on June 12 and 13, 2007.

The application has been amended as follows:

Claim 12 has been amended as follows:

12. A magnetic field sensor for the measurement of at least one component of a magnetic field, comprising

a ring-shaped ferromagnetic core attached to a semiconductor chip that spans a plane with the at least one component of the magnetic field to be measured and that serves as magnetic field concentrator, whereby the ferromagnetic core is magnetized with a predetermined magnetization,

a read-out sensor, whereby the read-out sensor comprises at least one sensor that is integrated into the semiconductor chip and arranged in the vicinity of an outer edge of the

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ferromagnetic core and that measures the at least one component of the magnetic field,

an excitation coil and a first electronic circuit for the temporary application of a current to the excitation coil in order to restore the predetermined magnetization in the ferromagnetic core, wherein said predetermined magnetization produces no signal in the read-out sensor, and

a second electronic circuit for the operation of the first electronic circuit, the read-out sensor and for processing a signal delivered by the read-out sensor.

## Claim 29 has been amended as follows:

29. A method for operating a magnetic field sensor for the measurement of at least one component of a magnetic field, in which the magnetic field sensor comprises a ring-shaped ferromagnetic core having a predetermined magnetization attached to a semiconductor chip the ferromagnetic core spanning a plane with the at least one component of the magnetic field to be measured and serving as magnetic field concentrator, and a readout sensor having at least one sensor integrated into the semiconductor chip and arranged in the vicinity of an outer edge of the ferromagnetic core whereby the read-out sensor measures the at least one component of the magnetic field, the method

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comprising the step of magnetizing the ferromagnetic core at specific times by temporary application of a current to an excitation coil for restoring the predetermined magnetization of the ferromagnetic core, wherein the predetermined magnetization in the ferromagnetic core produces no signal in the read-out sensor.

## REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance: the prior art does not show the predetermined magnetization producing no signal in the read-out sensor as recited in the claims and in combination with the other features of the claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kenneth J. Whittington whose telephone number is (571) 272-2264. The

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examiner can normally be reached on Monday-Friday, 7:30am-4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Lefkowitz can be reached on (571) 272-2180. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Kenneth J Whittington

Examiner

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kjw

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